

CLAIMS

- [001] An electric interface for water-bearing household devices comprising a program control and electronic components (6) for controlling at least one magnetic valve (2) for regulating a liquid line, characterised in that at least one part of the electronic components (6) and the magnetic valve (2) are integrated into a component group (1) which is connected to the program control.
- [002] The electric interface according to claim 1, wherein at least one sensor (3) for detecting parameters relevant for regulating the liquid line, especially hydraulic parameters, is integrated in the component group (1).
- [003] The electric interface according to claim 1 or claim 2, wherein the liquid line is a fresh water supply of a water-bearing household machine or a rinsing liquid circuit of a washing machine or a washing liquid circuit of a dishwasher.
- [004] The electric interface according to any one of the preceding claims, wherein a number of magnetic valves (2) for regulating a plurality of liquid lines are integrated in the component group (1).
- [005] The electric interface according to any one of the preceding claims, wherein the electronic components comprise at least one microprocessor (8).
- [006] The electric interface according to any one of the preceding claims, wherein at least one electrical connection (7) is provided for the electrical connection of the component group (1) to the program control of the water-bearing household device, which is preferably embodied as a group plug with a number of electrical contacts (9).
- [007] The electric interface according to any one of the preceding claims, wherein the electric interface comprises a plug-in board (1) which can be plugged with an

electric connection (7) into a complementarily configured slot provided for this purpose in the household machine.

- [008] The electric interface according to claim 7, wherein a section at the edge of the board (1) is constructed as an electric connection (7) with a plurality of electrical contacts (9).
- [009] The electric interface according to any one of the claims 2 to 8, wherein the magnetic valves (2), the electronic components (6) of the electric interface and preferably also the sensors (3) are disposed on the board (1).
- [010] The electric interface according to any one of the claims 2 to 9, wherein the magnetic valves (2) and/or the sensors (3) are arranged on one or more connectors (4) which are connected to the board (1) by means of electrical leads (12).
- [011] The electric interface according to any one of claims 2 to 10, wherein the connector (4) for the magnetic valves (2) and/or the sensors (3) comprises a number of slots (5) which are used for electric contacting of the magnetic valves (2) and/or the sensors (3).
- [012] The electric interface according to claim 11, wherein the slots (5) have means (15, 17) for mechanical location of the magnetic valves (2) and/or the sensors (3) or for their electrical connections (13).